YOUR NATURAL GAS QUALITY MEASUREMENT SOLUTION!

Chandler Natural Gas Chromatograph

On-Line Natural Gas Chromatograph with Modular Design from AMETEK

The Chandler Model 2920 Gas Analyzer System is a stand-alone gas chromatograph designed to measure the heating value of up to six natural gas streams. Its modular design makes it easy to install, operate, and maintain in the field, and an optional software package is available for remote communications, diagnostics and control. Built to withstand harsh environmental conditions, the Model 2920 delivers the repeatability and accuracy of a laboratory gas chromatograph. It uses field-proven technologies and industry-standard gas chromatographic techniques.

FLEXIBLE, MODERN DESIGN

ENGINEERING®

The Model 2920 System was designed for easy installation and maintenance. Its modular components (electronics, chromatograph, and stream selector), unlike other on-line systems, are housed in a single NEMA 4 enclosure. It takes hours, not days, to put the Model 2920 into operation and allows for fast, easy field-repairs and minimum downtime, dramatically reducing installation and operation cost.

OPERATION

A simple menu guides you through each operation step-bystep while prompting you for information to configure parameters for gas analysis, calibration, data retrieval, and diagnostics. Sampling time can be set or adjusted quickly and easily.

- SI (kJ/m³) units or English (units BTU/Scf) units can be easily selected.
- Samples are automatically purged between analyses.
- Calibration is fast and automatic.
- Data are password-protected to prevent tampering and ensure security.



Model 2920 On-Line Natural Gas Chromatograph

FEATURES

- Easy to install and maintain.
- Flexible, one-site, one-structure installation for all components.
- Dual on-board computers for simultaneous operation and communications.
- Automatic restart after power outage.
- Built-in data protection and diagnostics.
- Compliance with industry standards: GPA, ASTM, ISO, AGA
- Maintains a Microsoft® standard database (MDB) for all analysis results.
- Network compatible.

SPECIFICATIONS

Performance:

Range:	0-2000 BTU/scf
Repeatability:	±0.05% or ±0.5 BTU/1000 BTU
Standards:	Meets applicable GPA, ASTM, AGA-8 (direct
	method) and ISO standards.
Approved for:	Custody Transfer by Industry Canada,
	California Public Utility Commission and
	GOSSTANDART of Russia.

Environmental:

Operating Temp:	-10° to 110°F (-25-45°C)
Rating:	Approved by Factory Mutual Corporation,
	Canadian Research Assoc. and Gosstandard
	of Russia for use in Class I, Div 2, Groups
	C&D locations. European EMC approved.
Enclosure:	NEMA4

Sample:

Analyzes liquid-free natural gas that contains nitrogen, methane, carbon dioxide, ethane, propane, I-butane, N-butane, I-pentane,

neo-pentane, N-pentane, C₆ and heavier components.

Max Inle	t Pressure:	50 psig (450 kPa)
Min Inlet	Pressure:	7 - 10 psig (48 - 69 kPa). Lower pressures
		are possible if lag time is not excessive.
Connec	tion:	1/8" stainless steel tube
Speed L	_oop:	Each inlet is equipped with a speed loop. Can
		be disabled to minimize emissions.
Conditio	oning:	Sample probe, regulator and coalescing filter
		recommended for each stream.

Power Requirements:

115 or 230 VAC ± 10%, 50/60 Hz 250 VA startup, 40 VA operating

Gas Requirements:

Carrier Gas:	Zero-grade helium (99.995% pure)
Pressure:	150 psig (1135 kPa)
Connection:	1/8" SS tube
Usage:	Full-size bottle @ 2200 psig (15 Mpa)
	Will last approximately 3 months.

Analog Output Signals:

0-10 VDC, 1000 Ohm impedance. Chromatogram: Oven temperature: 0-10 VDC, 1000 Ohm impedence. 4-20 mA outputs: Model 298 transmitter option provides four 4-20 mA outputs per stream. Connects to auxiliary port.

Alarms:

8 programmable hardware Hi/Lo alarms (optional) 120 software alarms

Printer Interface:

Parallel Port:	Centronics interface to dot-matrix, laserjet or inkjet printer.
Main Port:	RS-232C, 300-9600 baud, non/even/odd parity, 7 or 8 word length, 1 or 2 stop bits, modem compatible, DTE.
Aux Port:	RS-232C, 300-9600 baud, non/even/odd parity, 7 or 8 word length, 1 stop bit, local 3-wire communication, DTE.

Hayes®-compatible modem, leased line modems, cellular modems, and radio modems can be used with the main port. Both ports can be used with Modbus® ASCII communications to a variety of RTU and flow computers. Consult the factory for further details.

ACCESSORIES / OPTIONS

- Communications software (BTUCOMM)
- Cabinet heater
- 4-20 mA analog transmitter
- Alarm relays
- Sampling kits
- RS-232C serial port extender

- Short haul modem for printer (up to 5 miles / 8.5 km)
- Helium and calibration gas regulators
- NEMA 4X housing
- Integral Class I, Div 2 modem
- Metric fitting adapter kit
- Automatic and manual helium gas manifold kits

One of a family of innovative process analyzer solutions from AMETEK Process Instruments. Specifications subject to change without notice.

USA - Pennsylvania

150 Freeport Road Pittsburgh, PA 15238 Ph. 412-828-9040 Fax 412-826-0399

2876 Sunridge Way N.E Calgary, AB T1Y 7H9 Ph. 403-235-8400

Fax 403-248-3550

CANADA

MANUFACTURING LOCATIONS

USA - Oklahoma



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USA - Texas Ph. 281-463-2820 Fax 281-463-2701

SUPPORT

LOCATIONS

CHINA - Beijing Ph. 86-10-85262111 Fax 86-10-85262141

CHINA - Shanghai Ph. 86 21 6426 7049 Fax 86 21 6426 7054 FRANCE Ph. 33 1 30 68 69 20 Fax 33 1 30 68 69 29

GERMANY Ph. 49 21 59 91 36 0 Fax 49 21 59 91 3680

MIDDLE EAST - Dubai Ph. 971-4-881 2052 Fax 971-4-881 2053

SINGAPORE Ph 65-6484-2388 Fax 65-6481-6588

ISO 9001

2001 N. Indianwood Ave. Broken Arrow, OK 74012 Ph 918-250-7200 Fax 918-459-0165

USA - Delaware

455 Corporate Blvd. Newark, DE 19702 Ph. 302-456-4400

Fax 302-456-4444